

A. CLASSIFICATION OF SUBJECT MATTER 1PC 7 H03G7/06 H03F1/32

13 APR 2005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03G H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

## EPO-Internal

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages                           | Relevant to claim No. |  |
|------------|--|-----------------------|--|
| Calegory   | Citation of document, with indication, where appropriate, or the relevant passages                           | Tielevan to dam ivo.  |  |
| A          | US 6 114 904 A (MELLOT PASCAL) 5 September 2000 (2000-09-05) column 1, line 48 - column 2, line 5; figure 2  | 1,9                   |  |
| A .        | US 6 108 293 A (NAKANO MASAKI ET AL) 22 August 2000 (2000-08-22) cited in the application the whole document | 1,9                   |  |

| Further documents are listed in the continuation of box C.   | Patent family members are listed in annex.  |
|--|---|
| Special categories of cited documents:      A' document defining the general state of the art which is not considered to be of particular relevance      E' earlier document but published on or after the international filing date      C' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O' document referring to an oral disclosure, use, exhibition or other means      P' document published prior to the International filing date but later than the priority date claimed | <ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul> |
| Date of the actual completion of the international search  23 January 2004   | Date of mailing of the International search report 29/01/2004   |
| Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,  Fax: (+31-70) 340-3016   | Authorized officer  Van den Doel, J   |

INTERNATIONAL SEARCH REPORT

Information on patent family members

F 13/04237

| Patent document<br>cited in search report |   | Publication<br>date | Patent family member(s) |            | Publication<br>date |
|---|---|---------------------|-------------------------|------------|---------------------|
| US 6114904                                | Α | 05-09-2000          | NONE                    |            |                     |
| US 6108293                                | Α | 22-08-2000          | JP                      | 11096578 A | 09-04-1999          |